

Tellabs® EXP4200 Optical Line Terminal

Direct fiber access satisfying the most common and compact enterprise local area network requirements

Overview

The Tellabs® Express Series is the economical fiber based access solution serving the data needs of guests at hotels or resorts, tenants at senior living, student housing, apartments, condos and all forms of multi-dwelling units. Tellabs Express is a compact passive optical networking solution aimed at small, efficient and lower cost local area networks. The number one expectation for residents of contemporary living units is ubiquitous always-on connectivity. Their lives are built around immediate access to voice, video and data across both wired and wireless; via smart phone, tablet, laptop and computer. Tellabs Express is the platform that can deliver on these expectations.

The Tellabs EXP4200 Optical Line Terminal (OLT) provides a small form-factor OLT for low complexity enterprise LAN deployments of up to 512 ONTs. The Tellabs EXP4200 is equipped with standards-based Gigabit Passive Optical Network (G-PON) and Ethernet connectivity. The compact design and low power consumption OLT is purpose-built for serving IP-based voice, video, data, wireless access, building security, building surveillance and building automation end points.

	Tellabs ESP4200 OLT
Height	1.77"/1RU
Width	16.9"
Depth	11.4"
Power source	Single AC
Total G-PON ports	8
Total ONTs served	Up to 256 (32:1 split) or 512 (64:1)
Total PON Ethernet	Up to 1,024 and 2,048
Switching capacity	160 Gbps
10 GbE network interfaces	2
1 GbE network interfaces	4

G-PON Connectivity

The Tellabs EXP4200 OLT provides eight (8) SFP ports of FSAN compliant ITU-T G.984 G-PON. The Tellabs EXP4200 supports Dynamic Bandwidth Allocation (DBA), strict QoS based on T-CONTs per port, 128 bit AES Encryption and Forward Error Correction (FEC).

G-PON Interface

- Quantity: 8
- Connectors: SC/UPC
- G-PON SFPs are ordered separately



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Ethernet Connectivity

The Tellabs EXP4200 OLT comes equipped with four Gigabit Ethernet and two 10 Gigabit Ethernet network uplink interfaces. These 1 GbE and 10 GbE ports are integral to the Ethernet switching fabric, common control and timing mechanism of the Tellabs EXP4200 OLT. This allows for efficient delivery of modern enterprise services and applications (both IPv4 and IPv6), including the management of subtended powered devices (e.g., VoIP phones, Wi-Fi WAPs, IP cameras). Quality of Service (QoS) is ensured through traffic segmentation/classification, rate limiting, queue management and scheduling.

10 GbE Interface

- Quantity: 2
- Connectors: SFP+ based
- SFP+ are ordered separately

1 GbE Interface

- Quantity: 4
- Connectors: SFP based
- SFPs are ordered separately

Management Options

Tellabs Express Manager

Compliant with ITU standard ONT Management Control Interface (OMCI) definitions, the Tellabs EXP4200 OLT is controlled from the Tellabs® Express Manager. The Tellabs Express Manager provides configuration, profile based provisioning, event and fault management and performance monitoring for the Tellabs EXP4200 OLT.

Visit www.tellabs.com for more information

Specifications

Dimensions

- 1.57" (H) x 8.22" (W) x 5.11" (D)
- Weight: 13.22 lbs

Power

- Single AC
- 50/60Hz
- 94VAC to 250VAC
- 70 to 80 Watts

Operating Environment

- Temperature: 32° F to +149° F
- Relative humidity: 5% to 95% noncondensing

Compliance Testing

- CE, EMC and UL certified

Installation

- Indoor main data centers or telecommunications rooms.

Gigabit Passive Optical Network

- ITU-T G.984 compliant framing
- TC Layer AES (128-bit key), US and DS FEC RS(255,239)
- DBA DBRu mode 0 and mode 1SR
- GEM port-ID up to 256, Flexible mapping between T-Cont & GEM port, Multicast GEM
- T-CONT Type 1-5, up to 32, 8 queues per T-CONT

Ethernet Interfaces

- Standards IEEE 802.3, 802.3u, 801.3ab, 802.3az
- Link 10/100/1000Base-T with rate and full/half-duplex auto-negotiation and MDI/MDIX auto-sensing
- MTU max 2,000 Byte per IEEE 803.3as
- Flow control per IEEE 802.3x
- Bridging IEEE 802.1d STP transparent bridging, 256 MAC table, MAC aging timer, UNI port MAC limit, MAC SA/DA Filters
- VLAN model TR-156 1:1 & N:1, Transparent LAN Service (TLS)
- VLAN Untagged, 802.1q Single tagged, 802.1ad (Q-in-Q) double tagged, VLAN ID translation
- Multicast IGMPv2/v3 and MLDv2 snooping
- QoS via IEEE 802.1p, 802.1d, 802.1q based QoS, Ingress/egress 802.1p based QoS on each port
- Scheduling per SP and WRR
- Congestion pause frame
- OAM stats, PMs, GEM and UNI port loopback
- WAN gateway features PPPoE client, IPoE with DHCP client or static IP, NAT/NAPT, port forwarding and port triggering
- LAN gateway features DHCP server and relay agent, DHCP option 60 and DNS relay
- IPv6 support with mode dual stack lite and 6rd

LED Indicators

- Power, Alarm, Link and Data.

Management

- Local via web-based GUI (HTTPS)
- Remote G.984.4/988 OMCI, G.984 PLOAM, Telnet and TR-069

Ordering Information

Tellabs EXP4200 OLT

- 81.EXP-OLT4200
- 81.EXP-GPONSFP
- 81.EXP-1000B-T-COP
- 81.EXP-1000B-SX SFP
- 81.EXP-10G-SR SFP+
- 81.EXP-10G-LR SFP+
- 81.EXP-SWLIC TELLABS EXPRESS SOFTWARE

For more information, please contact your local Tellabs sales representative or local Tellabs sales office at the phone numbers listed below, or visit www.tellabs.com.

The development, release, and timing of features or functionality described for Tellabs' products remains at Tellabs' sole discretion. The information that is provided within this data sheet is not a commitment nor legal obligation to deliver any material, code or functionality.

**Take the next step.
Contact Tellabs today.**

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